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NOTICE OF ALLOWANCE AND FEE(S) DUE

22045

7590

05/19/2009

BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075

EXAMINER					
DOUGHERTY, THOMAS M					
ART UNIT	PAPER NUMBER				

2834

DATE MAILED: 05/19/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.	_				
		APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	CONFIRMATION NO.

10/597,321 03/19/2007 Haluk Kulah UOM0329PUSA 9295

TITLE OF INVENTION: METHOD AND MICRO POWER GENERATOR FOR GENERATING ELECTRICAL POWER FROM LOW FREQUENCY VIBRATIONAL ENERGY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	08/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s	s) Transmittal. This rs. Each additional	s certif paper	icate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR				I hen State	Cert eby certify that thi s Postal Service w	ificate s Fee(s	of Mailing or Transm s) Transmittal is being ficient postage for first	dission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
SOUTHFIELD,	MI 48075							(Depositor's name)
				<u> </u>				(Signature)
	_				1			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/597,321 TTLE OF INVENTION VIBRATIONAL ENERG		CRO POWER GENERA	Haluk Kulah TOR FOR GENERA	ΓING	ELECTRICAL P		OM0329PUSA R FROM LOW FREQ	9295 UENCY
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	08/19/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
DOUGHERTY	, THOMAS M	2834	310-339000					
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. (1) the n or agents (2) the n registere 2 registere is required.				on the patent front page, list of up to 3 registered patent attorneys alternatively, f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is exill be printed.				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	TRY)	cument has been filed for
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a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	us. See 37 CFR 1.27.					CITY status. See 37 CF.	R 1.27(g)(2).
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1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075		ART UNIT PAPER NUMBER		
			2834	

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/597,321	KULAH ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Thomas M. Dougherty	2834				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS				
1. This communication is responsive to <u>02/17/09</u> .						
2. X The allowed claim(s) is/are <u>1,3,4,9,10 and 12-21</u> .						
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No.					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 						
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of	son's Patent Drawing Review (PTC). s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12. sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the back) of 1(d) must be submitted. Note the				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	5. ☐ Notice of Informal 6. ☐ Interview Summar Paper No./Mail D 7. ☐ Examiner's Amen	Patent Application ry (PTO-413), nate				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Staten 9. ☐ Other	8. ☑ Examiner's Statement of Reasons for Allowance9. ☐ Other				

Allowable Subject Matter

Claims 1, 3, 4, 9, 10 and 12-21 allowed.

The following is an examiner's statement of reasons for allowance: the prior art fails to show or fairly suggest a structure or a method for generating electrical power from low frequency, vibrational energy, the method including the structure to achieve the method comprising: receiving vibrational energy having a low frequency wherein the step of receiving includes the step of providing a micromechanical first resonator device, the first resonator device resonating in response to the received vibrational energy and including an element which is supported to vibrate inertially at a low frequency by inertial forces; converting the low frequency, vibrational energy to vibrational energy having a high frequency greater than the low frequency wherein the step of converting includes the step of providing a micromechanical second resonator device, the second resonator device resonating at the high frequency greater than the low frequency in response to the resonating first resonator device wherein the second resonator device has a mechanical spring force; generating a magnetic force between the devices wherein the magnetic force between the devices is larger than the spring force at a catch point at which the second resonator device is magnetically pulled towards the vibrating element; and converting the high frequency, vibrational energy to electrical power wherein the step of converting the high frequency, vibrational energy is performed electromagnetically.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/597,321 Page 3

Art Unit: 2834

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Direct inquiry to Examiner Dougherty at (571) 272-2022.

/T. M. D./ /Thomas M. Dougherty/

tmd Primary Examiner, Art Unit 2834

March 11, 2009